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APPLICATION NO. 📝	1	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/005,029		12/03/2001	Tetsujiro Kondo	450108-3249.3	1663
20999	7590	09/17/2003		r	
		VRENCE & HAUG	EXAMINER		
745 FIFTH AVENUE- 10TH FL. NEW YORK, NY 10151				WALLERSON, MARK E	
				ART UNIT	PAPER NUMBER
				2626	
				DATE MAILED: 09/17/2003	d

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No. 10/005,029 Applicant(s)

Kondo et al

Examiner

Mark Wallerson

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	The MAILING DATE of this communication appears	on the cover sheet with the correspondence address						
	for Reply							
THE N	ORTENED STATUTORY PERIOD FOR REPLY IS SET MAILING DATE OF THIS COMMUNICATION. ions of time may be evailable under the provisions of 37 CFR 1.136 (a). In date of this communication.	TO EXPIRE3 MONTH(S) FROM  no event, however, may a reply be timely filed after SIX (6) MONTHS from the						
<ul><li>If NO p</li><li>Failure</li><li>Any re</li></ul>	period for reply specified above is less than thirty (30) days, a reply within the period for reply is specified above, the maximum statutory period will apply a to reply within the set or extended period for reply will, by statute, cause the ply received by the Office later than three months after the mailing date of the patent term adjustment. See 37 CFR 1.704(b).	and will expire SIX (6) MONTHS from the mailing date of this communication. he application to become ABANDONED (35 U.S.C. § 133).						
Status								
1) 🗆	Responsive to communication(s) filed on	•						
2a) 🗌	This action is FINAL. 2b) 🔀 This act	tion is non-final.						
3) 🗆	Since this application is in condition for allowance closed in accordance with the practice under $Ex\ pa$	except for formal matters, prosecution as to the merits is arte Quayle, 1935 C.D. 11; 453 O.G. 213.						
Disposit	tion of Claims							
4) 💢	Claim(s) <u>52-113</u>	is/are pending in the application.						
4	a) Of the above, claim(s)	is/are withdrawn from consideration.						
5) 🗆	Claim(s)	is/are allowed.						
6) 💢	Claim(s) <u>52-113</u>	is/are rejected.						
	Claim(s)							
		are subject to restriction and/or election requirement.						
	tion Papers							
9) 🗆	The specification is objected to by the Examiner.							
10)	The drawing(s) filed on is/are	e a) $\square$ accepted or b) $\square$ objected to by the Examiner.						
	Applicant may not request that any objection to the d	Irawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)□	The proposed drawing correction filed on	is: a) $\square$ approved b) $\square$ disapproved by the Examiner.						
	If approved, corrected drawings are required in reply t	to this Office action.						
12)	The oath or declaration is objected to by the Exami	iner.						
Priority under 35 U.S.C. §§ 119 and 120								
	Acknowledgement is made of a claim for foreign pr	riority under 35 U.S.C. § 119(a)-(d) or (f).						
	All b)□ Some* c)⊠ None of:							
	1. X Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
	3. ☐ Copies of the certified copies of the priority do application from the International Bures be the attached detailed Office action for a list of the							
	Acknowledgement is made of a claim for domestic							
	The translation of the foreign language provisiona							
_								
Attachme	int(s)							
$\stackrel{\sim}{-}$	cice of References Cited (PTO-892)	4) Interview Summary (PTO-413) Paper No(s).						
	tice of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of Informal Patent Application (PTO-152)						
3) [X] Info	ormation Disclosure Statement(s) (PTO-1449) Paper No(s)3	6) Other:						

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#### Part III DETAILED ACTION

#### Notice to Applicant(s)

1. This application has been examined. Claims 52-113 are pending.

### Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the first paragraph of 35 U.S.C. 112:
  - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 3. Claims 52-113 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. There is no disclosure in the original specification of means for determining quantization characteristics of low hierarchy data being a resolution higher than that of upper hierarchy data being a low resolution, based on activity of **only** said upper hierarchy data. (Emphasis added). If Applicant believes this rejection to be in error, Applicant is requested to provide specific support for this subject matter in the original specification.

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#### Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 52, 53, 54, 55, 59, 60, 62, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 80, 82, 84, 86, 87, 88, 89, 90, 92, 93, 94, 95, 96, 99, 100, 102, 104, 106, 106, 107, 108, 109, 110, 111, 112, and 113 are rejected under 35 U.S.C. 102(b) as being anticipated by Ericsson (U. S. 4,849,810).

With respect to claims 52, 53, 59, 72, 73, 79, 92, 93, and 99, Ericsson discloses a hierarchial encoding method (column 2, lines 67-68) for encoding input picture data (column 2, line 67 to column 3, line 4) to generate hierarchial data of different resolutions (column 12, lines 29-37) comprising determining means for determining the quantization characteristics of a lower hierarchy data having a resolution higher than that of an upper hierarchy data being a lower resolution (column 12, lines 22-37, and column 12, line 44 to column 13, line 10) based on the activity of only the upper hierarchy data (column 4, lines 10-19), in which the quantization characteristics of the low hierarchy data are different from the quantization characteristics of the upper hierarchy data (the resolution of the upper hierarchy data is different from the resolution of the lower hierarchy data) (column 12, lines 22-37), and means for quantizing each of the hierarchy

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data in accordance with the determined quantization characteristics of each hierarchy (column 12, line 59 to column 13, line 38).

With respect to claims 54, 74, and 94, Ericsson discloses a determination means for determining the quantization step width of the lower hierarchy data for each predetermined block of the hierarchy data based on the step width determined by the upper hierarchy data (column 11, lines 19-33).

With regard to claims 55, 62, 64, 75, 82, 84, 95, 102, and 104, Ericsson discloses determination means for determining the quantized value of hierarchy data in a predetermined block in accordance with the step width determined by the upper hierarchy data, and determines the step width of the lower hierarchy data (column 10, lines 40-57).

With regard to claims 60, 80, and 100, Ericsson determines the quantization bit number of a lower hierarchy data based on the step width determined by the upper hierarchy data (column 11, lines 56-68).

With respect to claims 66, 86, and 106, Ericsson discloses determining for each block the quantization characteristics of the low hierarchy data based on predictions of the upper hierarchy data and determining a step size of the lower hierarchy data based on predictions of the upper hierarchy data (column 12, line 59 to column 14, line 32).

With respect to claims 67, 68, 87, 88, 107, and 108, Ericsson claims determination means for determining the quantized value of hierarchy data in a predetermined block in accordance with

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the step width determined by the upper hierarchy data and multiplies the step width of the upper hierarchy data by a gain value (column 3, lines 41-52).

With regard to claims 69, 70, 71, 89, 90, 91, 109, and 110, Ericsson discloses Ericsson discloses that hierarchy data except the uppermost hierarchy data is the inter-hierarchy difference data (column 12, lines 59-68 to column 13, lines 1-5).

With respect to claims 111, 112, and 113, Ericsson discloses detecting the quantization result of the upper hierarchy data as activity of the upper hierarchy data (column 12, line 55 to column 13, line 5).

#### Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 56, 57, 58, 61, 63, 65, 76, 77, 78, 81, 83, 85, 96, 97, 98, 101, 103 and 105 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ericsson in view of Asamura et. al. (Asamura) (U. S. 5,442,399).

Ericsson discloses a hierarchial encoding method for encoding input picture data to generate hierarchial data of different resolutions comprising determining means for determining

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the quantization characteristics of a lower hierarchy data having a resolution higher than that of an upper hierarchy data. Ericsson differs from claims 56, 57, 58, 61, 63, 65, 76, 77, 78, 81, 83, 85, 96, 97, 98, 101, 103, and 105 in that he does not disclose determination means for determining the quantization step width of the lower hierarchy data by multiplying the quantization step width of the upper hierarchy data by a linear or non-linear weight. Asamura discloses determination means for determining the quantization step width of the lower hierarchy data by multiplying the quantization step width of the upper hierarchy data by a linear or non-linear weight (column 22, lines 9-13, column 24, lines 32-61, and column 29, lines 17-22). It would have been obvious to one of ordinary skill in the art at the time of the invention to utilize the determination means as taught by Asamura in the apparatus of Ericsson in order to determine the quantization step width of the lower hierarchy data.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark Wallerson whose telephone number is (703) 305-8581.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-4700.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, DC 20231

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or faxed to:

(703) 872-9314 (for formal communications intended for entry)

(for informal or draft communications, such as proposed amendments to be discussed at an interview; please label such communications "PROPOSED" or "DRAFT")

or hand-carried to:

Crystal Park Two

2121 Crystal Drive

Arlington. VA.

Sixth Floor (Receptionist)

11/1/

MARK WALLERSON